

CENTRAL INTELLIGENCE AGENCY
INFORMATION REPORT

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COUNTRY	East Germany /USSR	REPORT		25X1
SUBJECT	1. VEB Synthesewerk Schwarzheide: Production and Use of Synthesis Contacts During the Third Quarter, 1954. 2. Export of Contacts to the USSR	DATE DISTR.	21 February 1955	
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THE SOURCE EVALUATIONS IN THIS REPORT ARE DEFINITIVE.
THE APPRAISAL OF CONTENT IS TENTATIVE.
(FOR KEY SEE REVERSE)

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1. During the third quarter of 1954, VEB Synthesewerk Schwarzheide¹ had 205 contact ovens, i.e. 13 more than the enterprise had a year before when it still was under SAC administration. The following table lists the number of contact ovens during the third quarter of 1953, the second quarter of 1954 and the third quarter of 1954. The table also lists the average number of ovens in operation during those periods and the rate of exploitation, i.e. the ratio between the number of ovens in operation and the total number of ovens.

Period	Total Number	Average number of Ovens in operation	Exploitation rate in percent
Third quarter 1953	192	178.5	93.3
Second quarter 1954	205	191.1	93.3
Third quarter 1954	205	190.4	93.1

The additional ovens were installed in the enterprise during the fourth quarter of 1953.

2. From the following table the ingredients of the cobalt synthesis contacts² can be seen. The table also lists the amount of each ingredient which was consumed per ton of cobalt produced during the third quarter of 1954. Included in the list are the amounts of ammonia, steam, water and electric power consumed per ton of cobalt during the third quarter of 1954.

Ingredient	Unit	Amount Used per Ton of Cobalt
Kieselguhr	metric tons	2.51
Soda	metric tons	3.58
Nitric acid (100% HNO ₃)	metric tons	4.43
Sodium chloride	metric tons	0.16
Sodium fluoride	metric tons	0.017
Sulfuric acid (100% H ₂ SO ₄)	metric tons	0.22

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Ingredient	Unit	Amount Used per Ton of Cobalt
Potassium sulfate	metric tons	0.06
Magnesium oxide	metric tons	0.09
Cobalt	kgs	18.91
Thorium dioxide	kgs	3.18
Silica gel	metric tons	0.01
Ammonia	kgs	3.21
Steam of 9 Atm ¹	metric tons	54.5
Steam of 2.5 Atm	metric tons	55.7
Water	cubic meters	352
Electric power	kwh	9,150

3. The enterprise produces contacts in its own contact factory. During the third quarter of 1954, the contact factory produced 187 contacts which contained a total of 183.393 tons of cobalt, 7.388 tons of thorium dioxide and 16.293 tons of magnesium oxide. During the same period the contact factory produced 18 contacts for export to the USSR which contained a total of 18.935 tons of cobalt, 0.953 tons of thorium dioxide, and 1.534 tons of magnesium oxide. During the second quarter of 1954, the factory produced 13 contacts and delivered them to the USSR, and during the third quarter of 1953, 12 contacts.
4. The contacts produced in the contact factory of the enterprise during the third quarter of 1954 for use in the enterprise on the average contained 981 kg. of cobalt, 39.5 kg. of thorium dioxide, and 87 kg. of magnesium per contact. The contacts produced in the contact factory during the third quarter of 1954 for export to the USSR on the average contained 1,052 kg. of cobalt, 52.9 kg. of thorium dioxide and 85 kg. of magnesium per contact.
5. During the third quarter of 1954, 0.61 contacts were used on the average per 1 million cubic meters of synthesis gas.

1. Comment. Atmosphaere-Ueberdruck = atmospheres absolute (excess) pressure.

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